

Regular Session

June 18, 2024 – 6:00 P.M.

I. Call to Order

II. Roll Call

____ Mary L. Gonzales, At Large, Position 1
____ Tom Groneman, District 2
____ David Haley, At Large, Position 2
____ Stevie A. Wakes, Sr., District 1
____ Rose Mulvany Henry, At Large, Position 3
____ Brett Parker, District 3

III. Approval of Agenda

IV. Approval of the Minutes of the Regular Session of June 5, 2024

V. Visitor Comments

VI. General Manager / Staff Reports

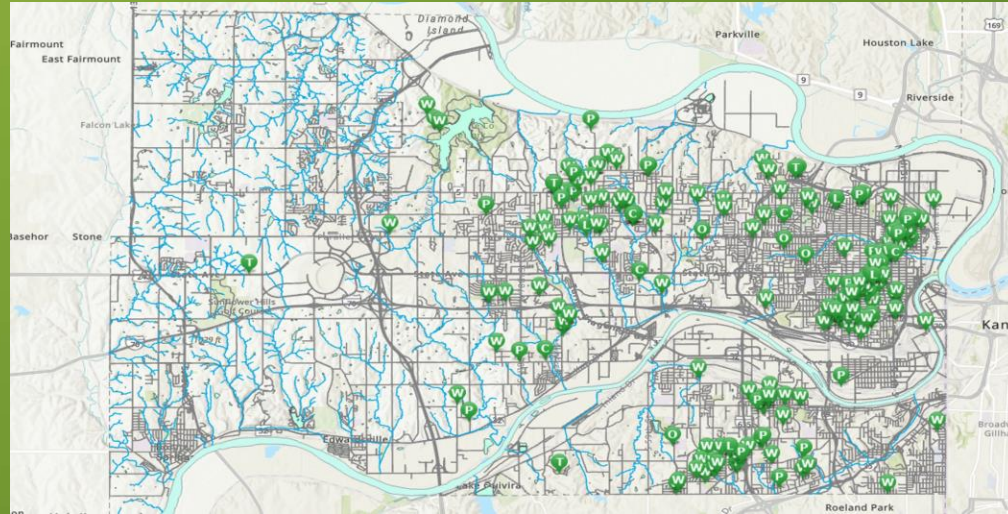
- i. Update on Bids for Quindaro & Kaw Sites
- ii. GIS Project Update
- iii. Miscellaneous Comments

VII. Public Comments on Agenda Items

VIII. Board Comments

IX. Adjourn

Geographical Information System "Utility Network" Project Update



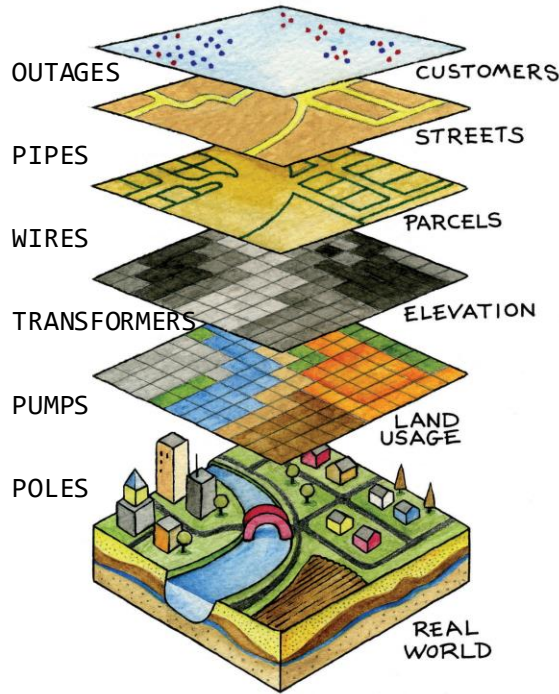
June 18, 2024

GIS Utility Network Project Discussion Topics

GIS Utility Network

- What is GIS and what is the GIS Utility Network (UN) Project?
- Is this a major project, where has it been used before, and who will use it at BPU?
- How is BPU benefitting from this system?
- Project Team & Status

What is GIS?



What is Geographic Information Systems (GIS)?

GIS is a company-wide platform that helps users manage and share spatial data for business tasks like creating, editing, viewing, analyzing, and distributing data.

It will integrate with other BPU software, enhancing them with spatial capabilities.

The key is having the product work seamlessly with other applications, integrate the systems, and have accurate data.

What is the GIS Utility Network?



OUTAGES

PIPES

WIRES

TRANSFORMERS

PUMPS

POLES

And many others

The Utility Network is a major step forward in GIS

The GIS Utility Network, or UN for short, is a connectivity-based model that creates a "digital twin" of complex infrastructure networks. A digital twin is a real-time display of the connectivity of BPU's water and electric systems.

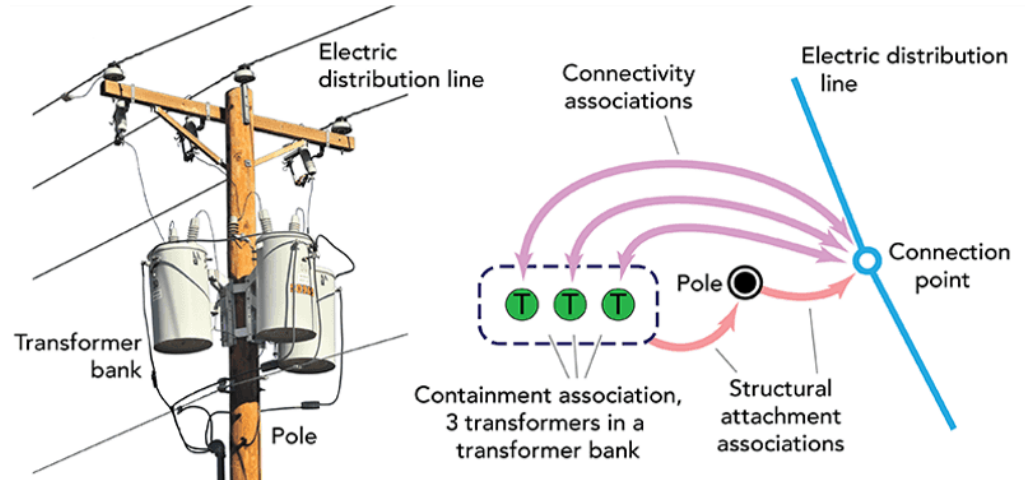
The Utility Network allows us to capture and represent data at a greater level of detail than previous GIS systems.

The Utility Network has rules-based editing ensuring accurate data for network analysis.

Benefits of The Utility Network

Detailed Network Modeling

- Accurately represents physical components and their Relationships
- Supports complex connectivity and flow models
- Represent dense areas of our networks without clutter
- Network detail capable of moving GIS beyond a tool for operations support into Engineering workflows for analysis and design



UN "connects" assets (wires, poles, and transformers) in our distribution system

Benefits of The Utility Network cont'd

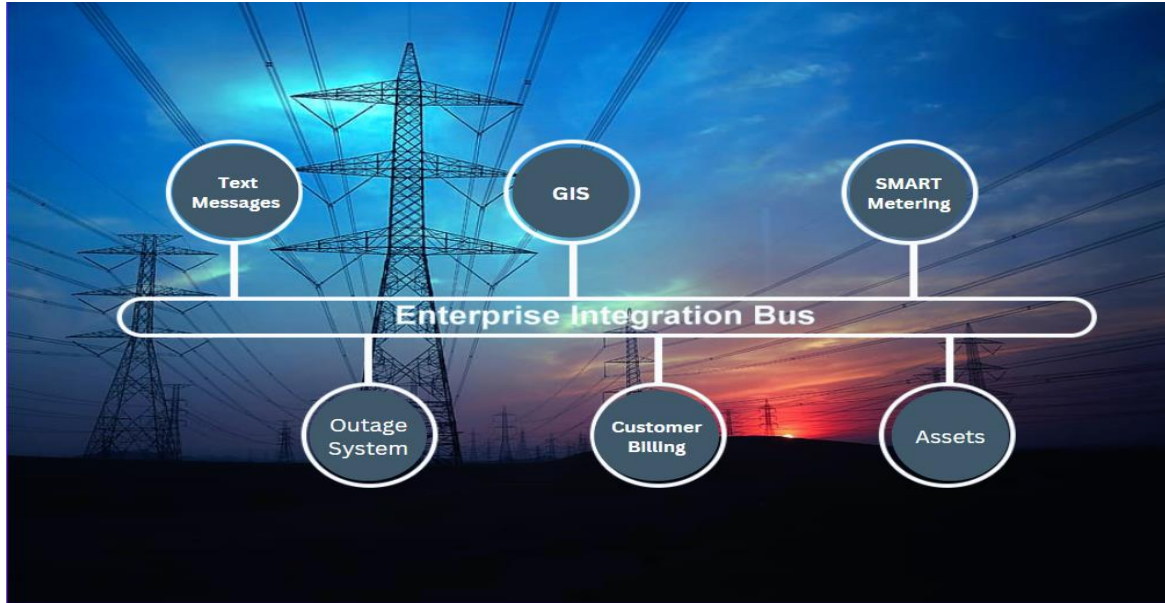
GIS UN is more than a mapping system

- It is an advanced geographic information system designed to model, manage, and analyze complex utility asset networks
- *Fantastic*, detailed interactive maps and visualizations
- Supports 2D and 3D views
- REAL-time integration
- REAL-time monitoring of network performance and incidents



UN provides tools to improve maintenance and emergency response as well as designs for new development

We are integrating major BPU systems to GIS UN



Critical BPU Systems are being integrated with other BPU Systems at a rapid pace

Utility Assets for both Water and Electric in the palm of your hands and available across BPU's critical systems

Pipes, wires, transformers, pumps, valves will not only be on a map, but the system will know how assets are connected

We've talked about electric, water, and system integration, but how will customer service benefit?



Customer Service Benefits

Customer Service Enhancement

- Integrates with Cayenta CIS to improved service reliability and satisfaction
- Supports better communication with customers regarding:
 - Outages
 - Maintenance schedules
 - Service availability



Improved data accuracy leads to improved outage response equaling improved customer satisfaction

Utility Network Project Team

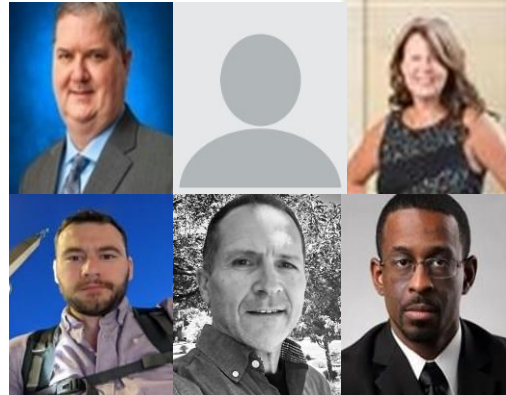
IT GIS Team

Sponsor: Jerry Sullivan
Director: Dustin Miller
PM: Rob Kamp
GIS Analyst: Robert Karl
GIS Analyst: Tania Taylor
Architect: Scott Malone



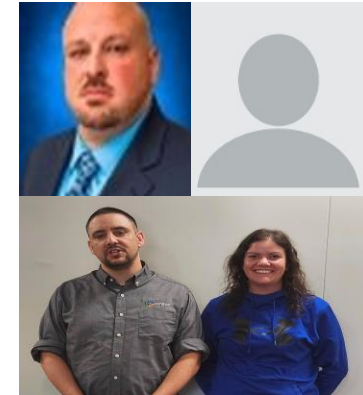
Water GIS Team

Exe. Dir: Steve Green
Director: Chris Stewart
GIS Supervisor: Kelly Bobki
GIS Analyst: Elijah Logan
GIS Analyst: Gerry Shisler
Civil Engineer: Phillip Brown

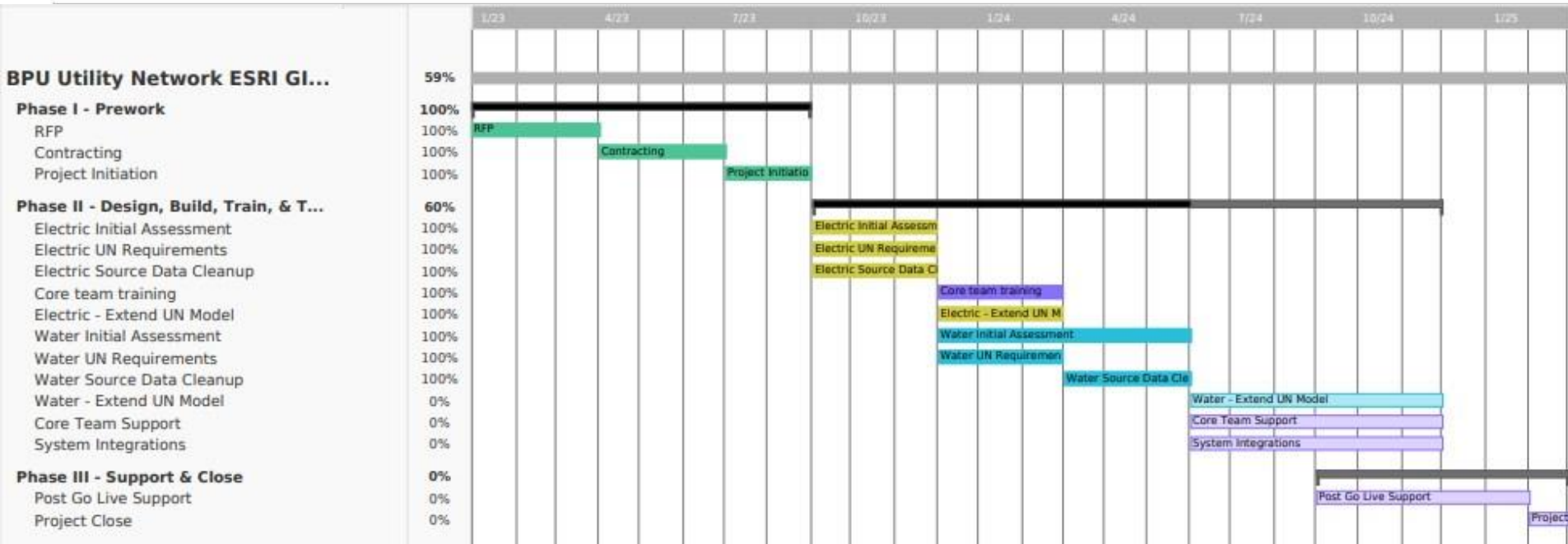


Electric GIS Team

Exe. Dir: Darrin McNew
Director: Pat Morrill
GIS Analyst: Bryce Barth
GIS Analyst: Meghan O'Brien



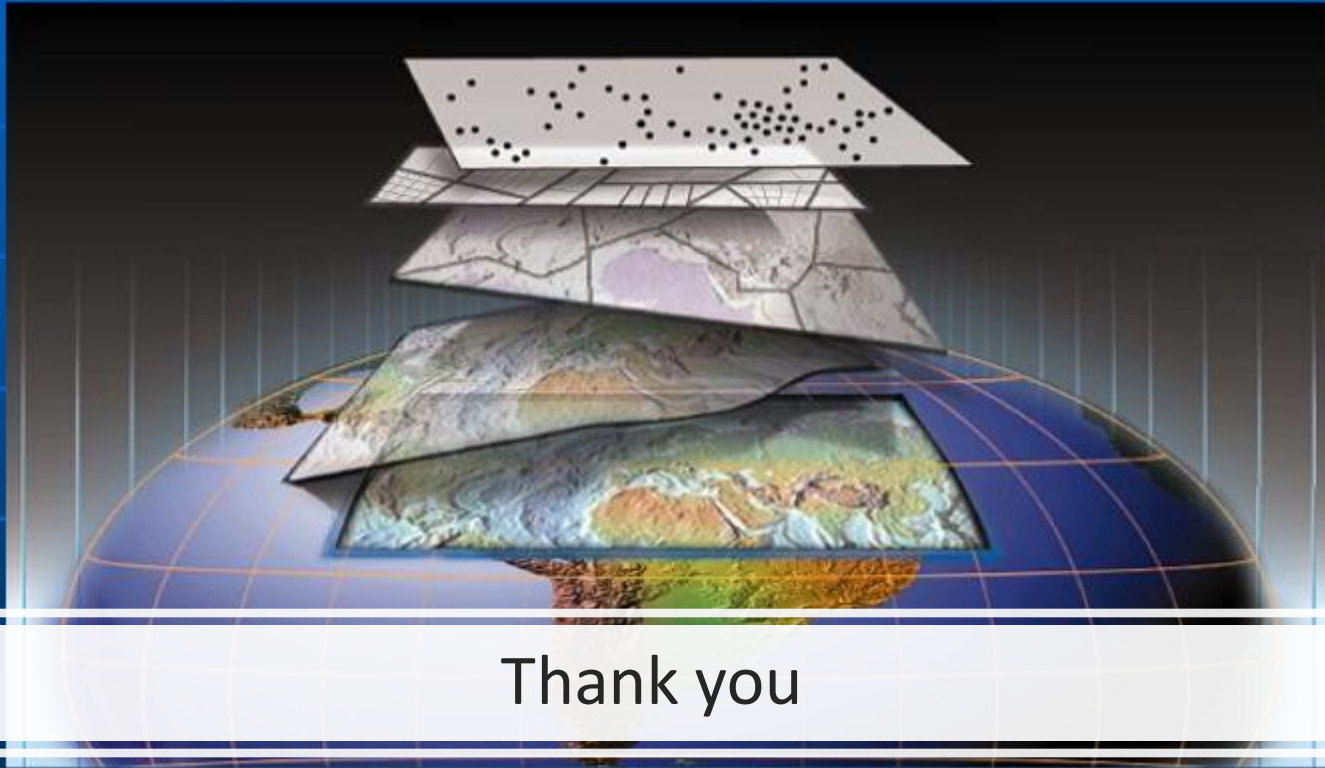
Utility Network Timeline



Project Number: 103011

Status: **On Track**

We are here



Thank you